

Year 5 spring home learning overview 2020-21

1 Spring term 1 2020-21					
INSET day	Chapter 6: Fractions				
	Recap year 4 Book 4A, Ch.6, Lesson 10: Adding Fractions To add fractions (simplest form).	Recap year 4 Book 4A, Ch.6, Lesson 12: Subtracting Fractions To subtract fractions (equivalence).	Lesson 1: Dividing to Make Fractions To divide whole numbers to create fractions; to create mixed numbers and improper fractions when dividing whole numbers.	Lesson 2: Writing Improper Fractions and Mixed Numbers To write improper fractions and mixed numbers using a number line and pictorial methods.	Lesson 3: Finding Equivalent Fractions To find equivalent fractions using pictorial methods.
	Learn the strategy: Recap simplifying fractions (from 5 minutes and 30 seconds) https://classroom.thenational.academy/lessons/finding-equivalent-fractions-ctqp4r?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/subtract-fractions-6hh66r?step=2&activity=video	Learn the strategy: Intro: https://classroom.thenational.academy/lessons/to-identify-describe-and-represent-fractions-ccw3ee?step=1&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/compare-fractions-greater-than-one-c8vkgr?step=2&activity=video	Learn the strategy: https://vimeo.com/419603258/19e2699144
2 Chapter 6: Fractions					
Lesson 4: Comparing and Ordering Fractions To compare and order fractions using the pictorial method.	Lesson 5: Comparing and Ordering Fractions To compare and order improper fractions using the pictorial method.	Lesson 6: Comparing and Ordering Fractions To compare mixed numbers using pictorial; to find common denominators where one fraction is already the common denominator for all.	Lesson 7: Making Number Pairs To make number pairs (number bonds) with fractions with different denominators.	Lesson 8: Adding Fractions To add unlike fractions by finding a common denominator using pictorial methods.	Lesson 9: Adding Fractions To add unlike fractions by finding a common denominator using pictorial methods.
Learn the strategy: https://classroom.thenational.academy/lessons/ordering-fractions-c4vp6r?step=2&activity=video		Learn the strategy: https://vimeo.com/419603289/dc82b56714	Learn the strategy: https://classroom.thenational.academy/lessons/add-and-subtract-fractions-with-a-common-denominator-68vpae?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/add-fractions-cnk3ar?step=2&activity=video	
3 Chapter 6: Fractions					
Lesson 10: Adding Fractions To add together unlike fractions where the sum is greater than 1, creating mixed numbers or improper fractions.	Lesson 11: Adding Fractions To add unlike fractions which create improper fractions and mixed numbers that give rise to simplification.	Lesson 12: Subtracting Fractions To subtract fractions with different denominators; to subtract fractions from whole numbers.	Lesson 13: Subtracting Fractions To subtract fractions where the denominators are not the same; to use bar models for subtracting fractions.	MNP Year 5 mid-year revision 5A assessment	MNP Year 5 mid-year revision 5A assessment
Learn the strategy: https://vimeo.com/419603358/431288e8d3	Learn the strategy: https://vimeo.com/419603358/431288e8d3 Simplifying fractions: (from 10 minutes) https://classroom.thenational.academy/lessons/finding-equivalent-fractions-ctqp4r?step=2&activity=video	Learn the strategy: (from 7 minutes 20 seconds to 9 minutes and 27 seconds) https://classroom.thenational.academy/lessons/fractions-solve-fraction-problems-with-the-four-operations-cgrk0d?step=2&activity=video	Learn the strategy: https://vimeo.com/419603396/ad5a8077cd	Complete workbook 5A mid-year revision sections A and B. Questions 1 - 29	Complete workbook 5A mid-year revision sections C. Questions 30-45

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4 Chapter 6: Fractions					
Lesson 14: Subtracting Fractions To subtract fractions and mixed numbers from mixed numbers with different denominators.	Embed addition and subtraction of fractions	Lesson 15: Multiplying Fractions by Whole Numbers To multiply fractions by whole numbers creating other fractions, mixed numbers or improper fractions.	Lesson 16: Multiplying Fractions by Whole Numbers To multiply fractions by whole numbers where the product is an improper fraction or mixed number.	Lesson 17: Multiplying Mixed Numbers To multiply mixed numbers by whole numbers, creating larger mixed numbers.	Embed multiplication of fractions
Learn the strategy: https://classroom.thenational.academy/lessons/subtracting-mixed-numbers-6xk32e?step=1&activity=video	Complete the online lesson: https://classroom.thenational.academy/lessons/add-and-subtract-fractions-with-a-common-denominator-68vpae	Learn the strategy: https://classroom.thenational.academy/lessons/multiply-a-fraction-by-a-whole-number-cgup2t?step=2&activity=video	Learn the strategy: https://vimeo.com/419603467/ea89654f58	Learn the strategy: https://classroom.thenational.academy/lessons/multiply-a-mixed-number-fraction-6nj6t?from_query=multiply+fractions+bv+a+whole+numbers	Complete the online lesson: https://classroom.thenational.academy/lessons/multiply-a-mixed-number-fraction-6nj6t?from_query=multiply+fractions+bv+a+whole+numbers
5					
Revisit formal multiplication of whole numbers	Revisit formal multiplication and division of whole numbers	Chapter 7: Decimals		Lesson 1: Writing Decimals To write decimal numbers.	Lesson 2: Reading and Writing Decimals To read and write decimals.
Recap year 4 fractions: Bk 4B, Chapter 8, Lesson 8: Writing Decimals To write decimal numbers.	Recap year 4 fractions: Bk 4B, Chapter 8, Lesson 17: Dividing Whole Numbers by 100 To divide whole numbers by 100&10.	Lesson 1: Writing Decimals To write decimal numbers.	Lesson 2: Reading and Writing Decimals To read and write decimals.	Lesson 1: Writing Decimals To write decimal numbers.	Lesson 2: Reading and Writing Decimals To read and write decimals.
Complete the online lesson: https://classroom.thenational.academy/lessons/multiplying-a-3-digit-number-by-a-2-digit-number-cmwpae	Complete the online lesson: https://classroom.thenational.academy/lessons/short-division-part-1-6gr6ar	Learn the strategy: https://classroom.thenational.academy/lessons/recognising-decimal-hundredths-part-1-c4v3ed?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/multiplying-and-dividing-by-100-part-1-68vk6c?step=2&activity=video https://classroom.thenational.academy/lessons/multiplying-and-dividing-by-100-part-2-6ngkcc?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/representing-decimals-c9gpat?step=1&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/thousandths-6wup6f?step=2&activity=video
6 Chapter 7: Decimals					Catch up time
Lesson 3: Reading and Writing Decimals To read and write decimals.	Lesson 4: Comparing Decimals To compare tenths and hundredths written as decimals.	Lesson 5: Comparing Decimals To order and compare decimals.	Lesson 6: Comparing Decimals To compare and order decimals of amounts.	Lesson 7: Writing Fractions as Decimals To write fractions as decimals.	
Learn the strategy: https://classroom.thenational.academy/lessons/thousandths-6wup6f?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/recognising-decimal-hundredths-part-1-c4v3ed?step=2&activity=video https://classroom.thenational.academy/lessons/recognising-decimal-hundredths-part-2-cmukcd?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/comparing-and-ordering-ccwk0r?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/tenths-and-hundredths-6nj68c?step=2&activity=video https://classroom.thenational.academy/lessons/comparing-fractions-and-decimals-c5jp8r?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/tenths-and-hundredths-6nj68c?step=2&activity=video	
Half term break					

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Spring term 2 2020-21					
7 Chapter 7: Decimals					
Lesson 8: Adding and Subtracting Decimals To add and subtract amounts in decimals.	Lesson 9: Adding and Subtracting Decimals To add and subtract decimals. To add and subtract amounts in pounds and pence.	Lesson 10: Adding and Subtracting Decimals To add and subtract amounts in pounds and pence.	Lesson 11: Adding and Subtracting Decimals To add and subtract decimals. To add and subtract amounts in pounds and pence.	Lesson 12: Adding and Subtracting Decimals To add and subtract decimals to find the smallest possible sum and difference.	Lesson 13: Adding and Subtracting Decimals To add and subtract decimals. To find number pairs that add up to 1.
Learn the strategy: https://classroom.thenational.academy/lessons/mental-addition-and-subtraction-70uk4f?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/solving-problems-with-decimals-using-addition-and-subtraction-6qu6ad Recap column addition and subtraction: https://classroom.thenational.academy/lessons/applying-and-consolidating-column-method-for-addition-and-subtraction-cavpcc?step=2&activity=video	Learn the strategy: Addition: https://www.khanacademy.org/math/arithmetic/arith-decimals/arith-review-add-decimals/v/adding-decimals-with-hundredths Subtraction: https://www.khanacademy.org/math/cc-fifth-grade-math/subtracting-decimals/xe33ac28b798af866:subtracting-decimals-hundredths/v/subtraction-strategies-with-hundredths	Learn the strategy: Addition: https://classroom.thenational.academy/lessons/adding-decimals-70t62r?step=2&activity=video Subtraction: https://classroom.thenational.academy/lessons/subtracting-decimals-69jpat?step=2&activity=video	Learn the strategy: Adding tenths to make one whole: (up to 10 minutes and 49 seconds) https://classroom.thenational.academy/lessons/decimal-number-bonds-c8vk4f?step=2&activity=video	
8 Chapter 7: Decimals		Chapter 8: Percentages		Chapter 9: Geometry	
Lesson 14: Adding and Subtracting Decimals To add and subtract the perimeter using decimals.	Lesson 15: Rounding Decimals To round decimals to the nearest whole. To round numbers to the nearest tenth.	Lesson 1: Comparing Quantities To compare quantities & convert fractions, decimals and percentages.	Lesson 2: Finding Percentages To convert values of an amount. To convert fractions into percentages.	Lesson 3: Finding Percentages To convert values of an amount and convert fractions into percentages.	Recap year 4 geometry: Bk 4B, Chapter 12, Lesson 2: Comparing Angles To compare & order angles.
Learn the strategy: https://classroom.thenational.academy/lessons/deriving-decimal-addition-and-subtraction-facts-6qu30c?step=2&activity=video	Learn the strategy: Part 1: https://classroom.thenational.academy/lessons/rounding-decimals-part-1-70r6at?step=2&activity=video Part 2: https://classroom.thenational.academy/lessons/rounding-decimals-part-2-74rkqc?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/understanding-percentage-6gvpad?step=2&activity=video Or: https://classroom.thenational.academy/lessons/understand-what-a-percentage-is-and-its-connection-to-fractions-6rrk2c?step=1&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/percentage-as-a-fraction-and-decimal-6mrk0r?step=2&activity=video	Learn the strategy: https://classroom.thenational.academy/lessons/finding-percent-of-a-quantity-problem-solving-c9h38d?step=2&activity=video	Introduction to angles: https://classroom.thenational.academy/lessons/understanding-angles-6nhk8f?step=1&activity=video Learn the strategy: https://classroom.thenational.academy/lessons/recognise-acute-and-obtuse-angles-cqr34d?step=2&activity=video
9 'Holistic maths skills' days – explaining to others		Recap lesson	Recap	Ch 9: Geometry	
Create a poster to show another child in year 3 how to complete these calculations: 35×34 and $479 \div 6$ Remember the strategies: Multiplication: Multiplication strategy And: Multiplication strategy 2 Division: Division strategy On your poster show your thinking in different ways. You could include using the part-whole model or represent the number with counters or by listing multiples or using different colours to show the place value of different digits. Be creative! Explain the methods on your poster to a family member or carer. Talk about all the different ways you have shown to solve the calculations and explain where another child may go wrong when using these methods.		Recap angles within a shape Complete the online lesson: https://classroom.thenational.academy/lessons/shape-and-symmetry-to-investigate-angles-within-shapes-6mtp4d	Recap year 4 geometry: Bk 4B, Chapter 12, Lesson 5: Identifying Symmetrical Figures To be able to identify lines of symmetry in 2-D shapes. Learn the strategy: https://classroom.thenational.academy/lessons/to-identify-and-describe-lines-of-symmetry-in-2-d-shapes-c5jk0c?step=2&activity=video	Recap year 4 geometry: Bk 4B, Chapter 12, Lesson 7 : Completing Symmetrical Figures To complete a simple symmetric figure with respect to a specific line of symmetry.	
				Lesson 1: Knowing Types of Angles To know the names and qualities of acute, right, obtuse and reflex angles.	
				Learn the strategy: https://classroom.thenational.academy/lessons/compare-and-order-acute-obtuse-and-reflex-angles-6dnhk6d?step=2&activity=video	

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10 Chapter 9: Geometry					
Lesson 2: Measuring Angles (over 2 days) To measure angles using a protractor.	Lesson 2: Measuring Angles (over 2 days)	Lesson 3: Measuring Angles (over 2 days) To draw, measure and add angles using a protractor.	Lesson 3: Measuring Angles (over 2 days)	Lesson 4: Investigating Angles on a Line To measure angles using a protractor. To identify two angles which add up to 180° on a straight line.	Lesson 5: Investigating Angles at a Point To investigate angles that, when combined, make 360°.
Learn the strategy: https://classroom.thenational.academy/lessons/reading-angles-on-a-protractor-part-1-6mt3gt?step=2&activity=video Then: https://classroom.thenational.academy/lessons/reading-angles-on-a-protractor-part-2-6mt30d?step=2&activity=video		Learn the strategy: https://classroom.thenational.academy/lessons/reading-angles-on-a-protractor-part-3-cnh3ge?step=2&activity=video		Learn the strategy: https://classroom.thenational.academy/lessons/calculating-angles-on-a-line-or-around-a-point-69h66t?step=2&activity=video	
11 Chapter 9: Geometry					
Lesson 6: Drawing Angles To draw angles using a protractor.	Lesson 6: Drawing Angles (over 2 days)	Lesson 8: Describing Squares and Rectangles To describe the sides and angles of both rectangles and squares.	Lesson 9: Investigating Angles in Squares and Rectangles To investigate the angles of various quadrilaterals, including squares and rectangles.	Lesson 10: Solving Problems Involving Angles in Rectangles To solve problems involving angles in rectangles.	Lesson 13: Investigating Regular Polygons To investigate regular polygons.
Learn the strategy: https://classroom.thenational.academy/lessons/draw-angles-with-a-protractor-1-60rp4e?step=2&activity=video Then: https://classroom.thenational.academy/lessons/draw-angles-with-a-protractor-part-2-65hk4e?step=2&activity=video		Learn the strategy: https://classroom.thenational.academy/lessons/to-compare-and-classify-quadrilaterals-6rv62t?step=2&activity=video		Learn the strategy: https://vimeo.com/412302740/51f3e58179 And https://classroom.thenational.academy/lessons/calculating-angles-within-a-shape-part-2-60u3jr?step=2&activity=video	
12 Recap lessons to revise and consolidate			Easter Break		
Recap multiplication	Recap division	Recap problem solving			
Complete the online lesson: https://classroom.thenational.academy/lessons/multiplying-3-digit-numbers-by-1-digit-numbers-6ctkj4	Complete the online lessons: https://classroom.thenational.academy/lessons/dividing-using-knowledge-of-multiples-cmt3ed Or: https://classroom.thenational.academy/lessons/short-division-part-1-6gr6ar	Complete the online lesson: https://classroom.thenational.academy/lessons/problem-solving-using-all-four-operations-69k32d			